

SEQUENCE LISTING

<110> HAYES, PHILIP D.
GENTRY, DANIEL R.
VAN HORN, STEPHANIE

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35 40 45

Thr Pro Ile Phe Tyr Val Asn Ala Ala Pro His Ile Gly His Leu Tyr
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Pro Ser Thr Ala Ala Thr Arg Phe Ser Thr Gly Thr Asp Glu His Gly
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Leu Lys Ile Gln Gln Ala Ala Ala Thr Ala Gly Leu Ala Pro Thr Glu
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Leu Cys Asp Arg Val Ser Glu Gln Phe Gln Gln Leu Phe Gln Glu Ala
115 120 125
Gly Ile Ser Cys Thr Asp Phe Ile Arg Thr Thr Glu Ala Arg His Arg
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Tyr Lys Gly Val Tyr Glu Gly Trp Tyr Cys Ala Ser Asp Glu Cys Phe
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Leu Pro Glu Ala Lys Val Thr Gln Gln Pro Gly Pro Ser Gly Asp Ser
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Phe Pro Val Ser Leu Glu Ser Gly His Pro Val Ser Trp Thr Lys Glu
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Glu Asn Tyr Ile Phe Arg Leu Ser Gln Phe Arg Lys Pro Leu Gln Arg
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Trp Leu Arg Gly Asn Pro Gln Ala Ile Thr Pro Glu Pro Phe His His
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Val Val Leu Gln Trp Leu Asp Glu Glu Leu Pro Asp Leu Ser Val Ser
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Arg Arg Ser Ser His Leu His Trp Gly Ile Pro Val Pro Gly Asp Asp
260 265 270
Ser Gln Thr Ile Tyr Val Trp Leu Asp Ala Leu Val Asn Tyr Leu Thr
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Val Ile Gly Tyr Pro Asn Ala Glu Phe Lys Ser Trp Trp Pro Ala Thr
290 295 300
Ser His Ile Ile Gly Lys Asp Ile Leu Lys Phe His Ala Ile Tyr Trp
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Pro Ala Phe Leu Leu Gly Ala Gly Met Ser Pro Pro Gln Arg Ile Cys
325 330 335
Val His Ser His Trp Thr Val Cys Gly Gln Lys Met Ser Lys Ser Leu
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355 360 365

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Asp Tyr Tyr Asp Glu Lys Val Val Lys Leu Leu Asn Ser Glu Leu Ala
385 390 395 400
Asp Ala Leu Gly Gly Leu Leu Asn Arg Cys Thr Ala Lys Arg Ile Asn
405 410 415
Pro Ser Glu Thr Tyr Pro Ala Phe Cys Thr Thr Cys Phe Pro Ser Glu
420 425 430
Pro Gly Leu Val Gly Pro Ser Val Arg Ala Gln Ala Glu Asp Tyr Ala
435 440 445
Leu Val Ser Ala Val Ala Thr Leu Pro Lys Gln Val Ala Asp His Tyr
450 455 460
Asp Asn Phe Arg Ile Tyr Lys Ala Leu Glu Ala Val Ser Ser Cys Val
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Arg Gln Thr Asn Gly Phe Val Gln Arg His Ala Pro Trp Lys Leu Asn
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Trp Glu Ser Pro Val Asp Ala Pro Trp Leu Gly Thr Val Leu His Val
500 505 510
Ala Leu Glu Cys Leu Arg Val Phe Gly Thr Leu Leu Gln Pro Val Thr
515 520 525
Pro Ser Leu Ala Asp Lys Leu Leu Ser Arg Leu Gly Val Ser Ala Ser
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Glu Arg Ser Leu Gly Glu Leu Tyr Phe Leu Pro Arg Phe Tyr Gly His
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Pro Cys Pro Phe Glu Gly Arg Arg Leu Gly Pro Glu Thr Gly Leu Leu
565 570 575
Phe Pro Arg Leu Asp Gln Ser Arg Thr Trp Leu Val Lys Ala His Arg
580 585 590
Thr